

# EUROPEAN PATENT OFFICE

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TITLE : RADIATION-CURABLE RESIN AND COATING COMPOSITION THEREOF

ABSTRACT : PURPOSE: To obtain the title resin having excellent radiation curability, low curing shrinkage and excellent adhesion, by using a cycloalkyl compound as a polybasic acid component of a copolymeric polyester polyol as the raw material.

CONSTITUTION: A radiation-curable resin comprising a polyurethane acrylate is obtained by reacting a copolymeric polyester polyol wherein at least 10% acid component is a cycloalkyl-containing polybasic acid with a polyisocyanate compound, a compound having at least one (meth)acryloxy group and at least one hydroxyl group and, optionally, a polyol other than the above anhydride. The above composition has very excellent radiation curability, can form a coating film of a good hardness, undergoes low curing shrinkage and has good adhesion to a base material, because the cycloalkyl compound is used as the polybasic acid component of the copolymeric polyester polyol.

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